



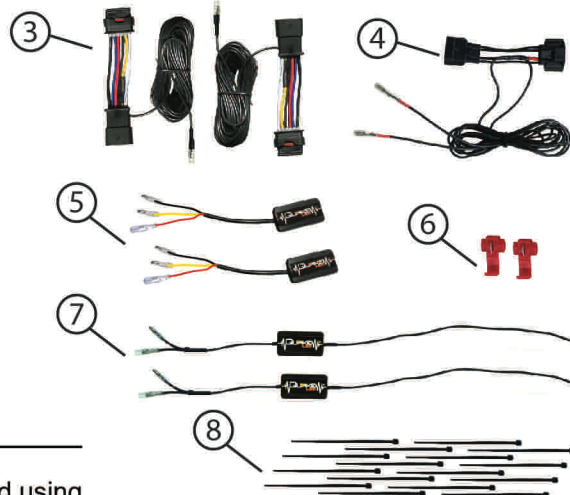
## INTRODUCTION:

Thank you for purchasing our Patent Pending, Plug-in-Play Jeep Gladiator JT LED Tail Lights. Carefully remove all the components and examine for any missing parts or visible damage caused by shipping and report any damage to the carrier and keep the shipping package. Take a good look at all the components so you are familiar with them before digging into this.



### PARTS LIST:

1. DRIVERS SIDE TAIL LIGHT
2. PASSENGER SIDE TAIL LIGHT
3. TURN SIGNAL ADAPTORS (x2)
4. BRAKE SIGNAL ADAPTOR
5. LIGHTHACKER MODULE (x2)
6. QUICK CRIMP (x2)
7. SPLITTER MODULE (x2)
8. CABLE ZIPTIES (x20)



### REQUIRED TOOLS :

- 8mm Socket
- Socket Wrench
- 10mm Wrench
- Phillips Head Screwdriver
- Electrical Tape

Record any serial no. here \_\_\_\_\_

### WARNING:

Read all instructions and warnings before installing and using.

**INSTALLER:** This manual must be delivered to the end user of this equipment.

## INSTALLATION

Step 1. Open tailgate and remove these 2 bolts using your 8mm socket and wrench. Do not lose these bolts as you will reuse them later. (Photo 1 & 2)

Step 2. Gently pull the tail light off the truck pulling backward fashion, away from the truck bed. There are 2 ball stud bolts holding the side of the tail light to the bed. (Photo 3 & 4)

Step 3. Pull the tail light away from the truck bed about 6" and unplug the tail light connector from the trucks taillight wiring harness. Make sure the little red lock lever is pulled back into the unlock position. Remove the tail light from the vehicle and place on a clean table. (Photo 5)

Step 4. If you have the blind spot monitoring system. You will want to remove the entire radar unit including the mounting bracket that the radar is attached to and install this entire unit into your new tail lights. Remove the 7 self-tapping screws that are holding the radar mount to the stock tail light unit with a Phillips head screwdriver. Do not lose these screws! (Photo 6 & 7)





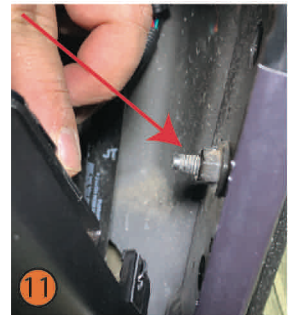
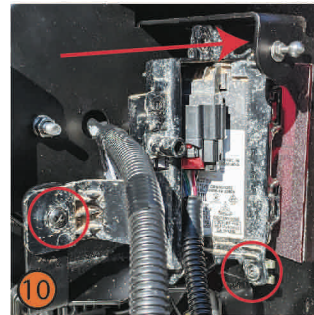
# 2020+ JEEP GLADIATOR JT 7" X 8" 30W LED TAILLIGHTS

QTE1025



VER: 20-3

Step 5. Unlock and disconnect the radar connector from the stock tail light (Photo 8). You will now be able to remove the entire radar unit/mounting bracket (Photo 9) and install into the new tail light using 3 of your stock radar mounting hardware. (Photo 10)



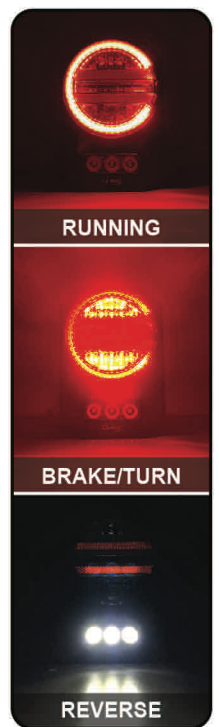
Step 6. Reverse steps 1 thru 3 to re-install your new tail light and proceed to the other side. FYI, You maybe have to back out this stock bolt (near the tail gate) before installing the new tail lights. (Photo 11)

Step 7. If you WANT to be cool and have Sequential Turn Signals via our LIGHTHACKER. **Proceed to Step 8.** Otherwise you are finished installation of your new Gladiator LED Tail Lights and now you can test the bottle opener with your favorite bottled beverage!

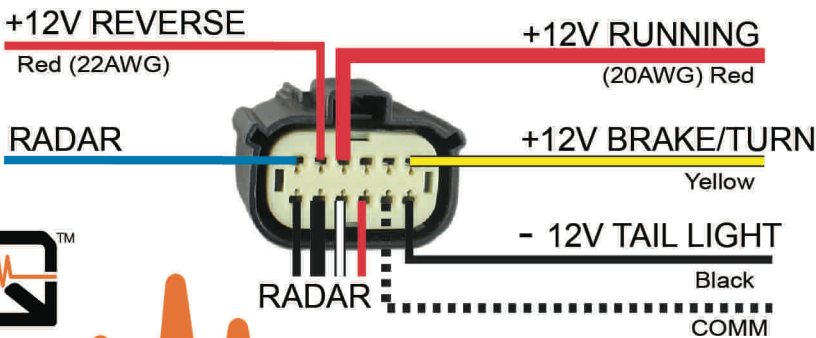
## FUNCTION



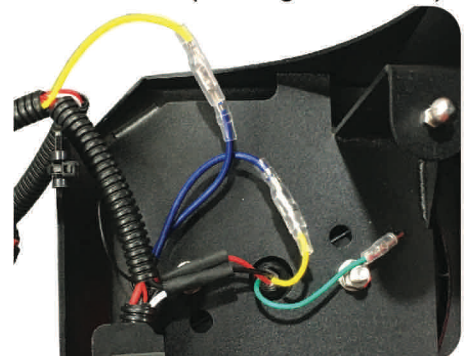
## FUNCTION



## CONNECTOR



## TAIL WIRING (Non-LightHACKER)



-Wire Diagram is for Illustration Only.  
-Actual wire harness lengths and wire gauge are not to scale.  
-Actual wire harness components and lights are not to scale.

LIGHT UP THE DARKNESS



Step 8. If your reading this. Put back your favorite beverage and Welcome to Sequential Turn Signals via LIGHTHACKER technology. Keep reading and don't re-install the tail lights quite yet. You will still need to swap some tail light wire connections, run some new wires and connect our provided adaptors/modules. Each tail light must use a Lighthacker Module, a Splitter Module, a Turn Signal Adaptor and a Inline Brake Signal Adaptor to achieve Sequential Turns.

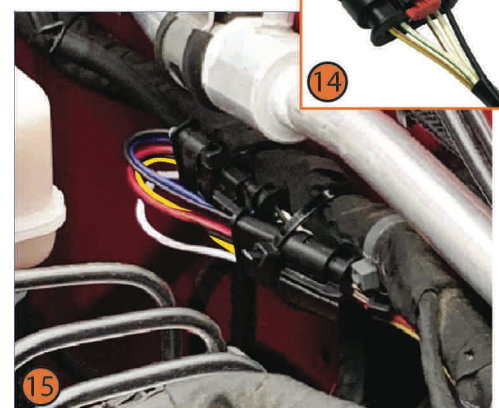
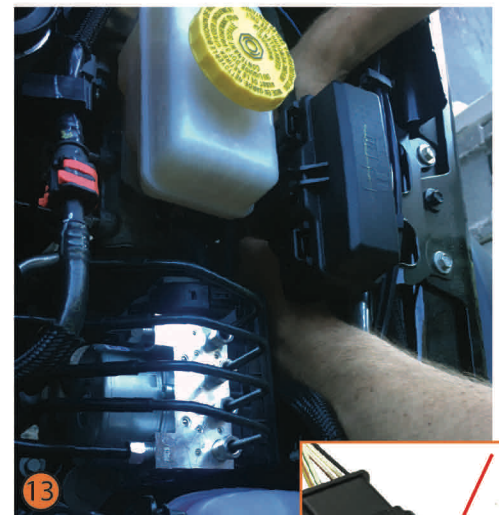
Step 8. Now we need to install the Turn Signal Wire Adaptors (Photo 12) to the Jeeps front Fender Light DRL wire harness. You need to locate the stock drivers side fender DRL light wire harness/plug to access the DRL and Turn Signal input wire. It is possible to access this from the engine bay. Feel for the plug by standing on the drivers side and reaching into the engine bay where the fender liner meets the body. (Photo 13)



You will find this flat plug about 3/4 of the way up the engine bay/fender. This plug is secured to the body of the Jeep inside the engine bay near the rear of the plastic fender liner. Use a screw driver to remove the plug from the clip that holds it into the body. Once released you can pull the entire connector far enough into the engine bay to get at it to install the our Turn Signal Wire Adaptor.

Step 9. To undo the factory connectors, pull out the red tab outward at the end of the connector, then insert a small screwdriver into the connector latch at the end opposite the red tab. This should release the 2 halves of the connector. (Photo 14)

Step 10. Plug the Turn Signal Wire Adaptor into the 2 halves of the factory connector and test the fender lights. If your fender lights are still working correctly, run that long black turn signal wire towards the tail light cavity on it's respective side. Follow the chassis and route wires so they are not touching any moving, sharp, hot parts and next to existing wires if possible. Zip tie this adaptor to existing wires. (Photo 15)



Step 12. The passenger side is a little bit more complicated because the factory DRL light wire harness/plug is hidden behind the three grounding wires and a plastic piece in the engine bay. Due to this, you will have to access the plug/harness by partially pulling back the passenger side inner fender liner. There are 2 plastic clips at the bottom of the fender liner and 4 more that run along the inside edge that you will have to remove.

You will have to pop the fender liner over the plastic rivets in the fender but the holes are big enough that you do not need to drill out the rivets to do this. Just use a pry tool of some sort. There is one bolt that can be removed from the inner fender along with the clips to free up more space. Once the clips//bolt are removed the inner fender liner can be flexed back over the tire providing easy access to the plug. You could jack up the vehicle and remove the wheel to free up more space, but it is not necessary.

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Step 14. While you have the fender liner peeled back you can unplug the factory fender light harness and push the ends of the plugs through the obvious gap into the engine bay. This will make accessing the plug in the future much easier because you will not have to peel back the fender liner again. You DO NOT need to remove the three grounding wires to relocate the plug.

Step 15. To undo the factory connectors, pull out the red tab outward at the end of the connector, then insert a small screwdriver into the connector latch at the end opposite the red tab. This should release the 2 halves of the connector. (Photo 16)

Step 16. Plug the Turn Signal Wire Adaptor into the 2 halves of the factory connector and test the fender lights. If your fender lights are still working correctly, run that long black turn signal wire towards the tail light cavity on it's respective side. Follow the chassis and route wires so they are not touching any moving, sharp, hot parts and next to existing wires if possible. Zip tie this adaptor to existing wires. (Photo 15)

Step 17. Safely get underneath the Gladiator to connect the Brake Signal Wire Adaptor (Photo 17) to an existing brake light wire harness that is located under the truck bed and near the tail gate. (Photo 18) Unplug that stock connector and install our Brake Signal Wire Adaptor in between the two stock connectors.

Step 18. Run one black wire from the Brake Signal Wire Adaptor to the passenger side tail light cavity and the other wire to the drivers side tail light cavity. Route wires so they are not touching any moving, sharp, hot parts. Run along areas with existing wires if possible (Photo 19)

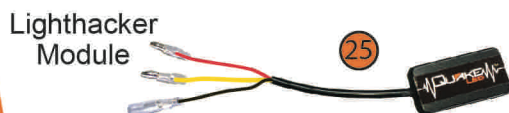
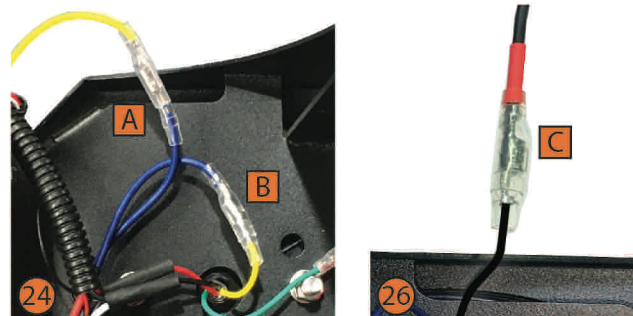
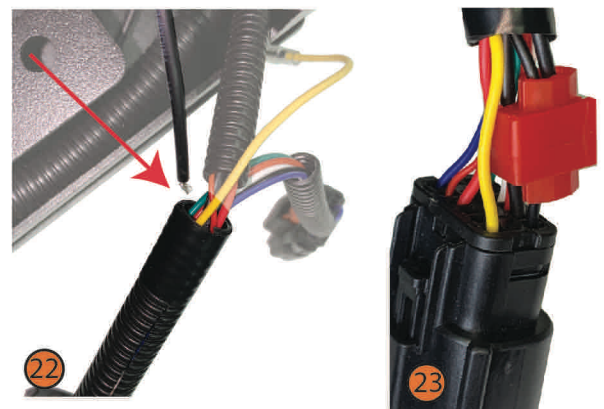
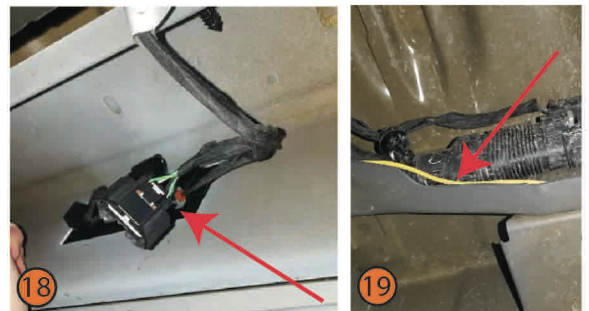
Step 19. If you have a Halogen trim JT keep on reading. You can skip to Step 22 if you have a LED trim JT.

Grab one tail light, one Splitter Module's (Photo 20) and one Quick Splice. (Photo 21) Run the long single black wire thru the plastic loom protecting the wires and to the main tail light connector. The Y-splitter wires will be connected to the tail light in future steps.

Step 20. Quick Crimp this long black wire to the tail light connector other black wire directly below the yellow wire.

Step 21. Remove the two blue Y-splitter wires that are pre-connected to the tail lights yellow wires. (Photo 24, @A&B)

Step 22. Now we will be adding the Lighthacker Module. (Photo 25) Get a Lighthacker Module and connect the black wire to the long Brake Signal Wire Adaptor black/red wire that you ran under the Gladiator near the tail gate. (Photo 26, @C)





Step 23. Connect the Lighthacker Module's red wire to the short yellow wire that is coming out of the hole in the metal, in-between the two bolts. (Photo 27, @D)



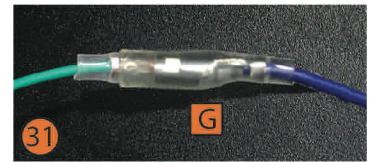
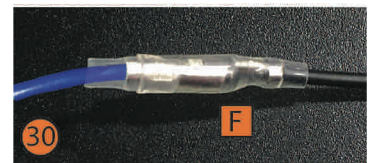
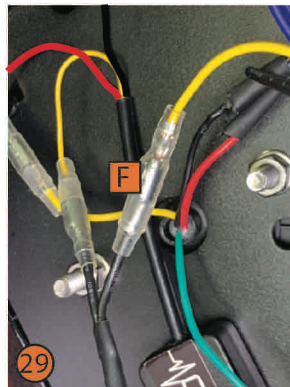
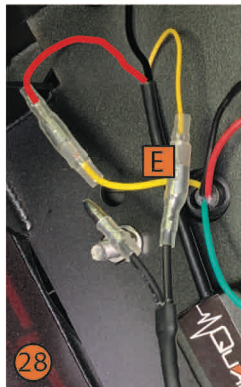
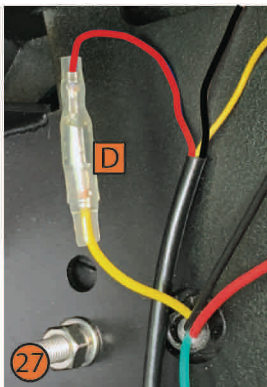
Step 24. Connect the Lighthacker Module's yellow wire to the Splitter Module's black wire. (Photo 28, @E)

Step 25. Connect the other Splitter Module's black wire to the main Tail Light connector's yellow wire that is coming out of the black wire loom. (Photo 29, @F)

Step 26. Connect the long black Turn Signal wires that you installed during steps 8-16 to the back to the taillights. Connect the Black Wire to the unused Blue Wire Y-Splitters male connector. (Photo 30, @F)

Step 27. Connect the other Blue Wire Y-Splitters female connector to the Tail Lights Short Green Wire. (Photo 31, @G)

FULLY COVER the metal bullet connectors with it's clear plastic cover or it may cause a short circuit.



## LIGHT HACKER CONNECTIONS

After you have completed all LighthACKER steps your taillight should be connected like this.



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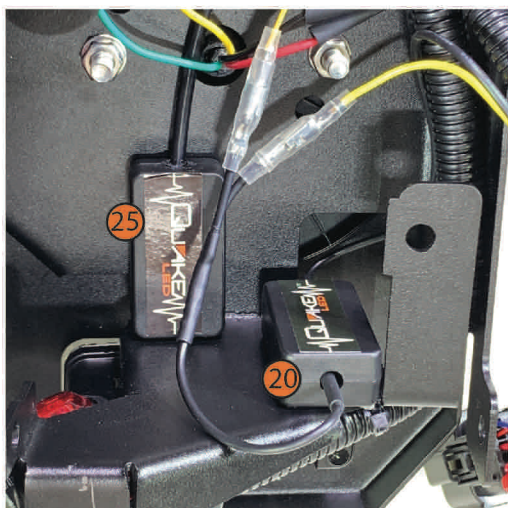


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Step 28. Plug in the tail lights connector to the stock Gladiator tail light wire harness and check that all functions work.

Now that you have the LIGHTHACKER installed and all functions work correctly. Secure the Lighthacker Module and the Splitter Module to the tail light via the 3M adhesive on the backside.

Step 29. Reverse steps 1 thru 3 to re-install your new tail light and proceed to the other side if not already.

You are finished installation of your new Gladiator LED Tail Lights and test the bottle opener with your favorite bottled beverage!

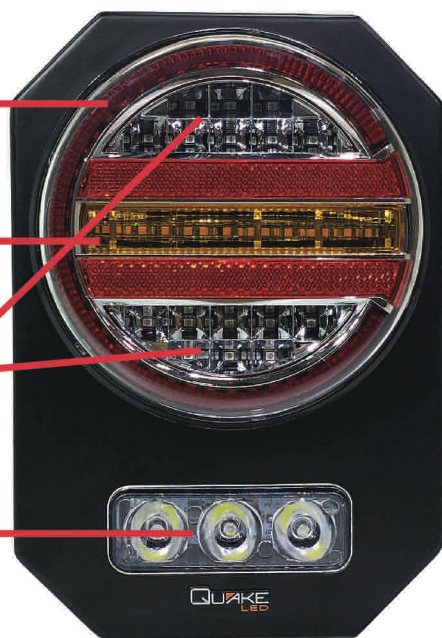
## LIGHT HACKER FUNCTION

RUNNING LIGHT

SEQUENTIAL TURN SIGNAL

BRAKE LIGHT + TURN SIGNAL

REVERSE LIGHT



YELLOW WIRE = BRAKE LIGHT  
GREEN WIRE = SEQUENTIAL TURN



SIDE MARKER

BOTTLE OPENER

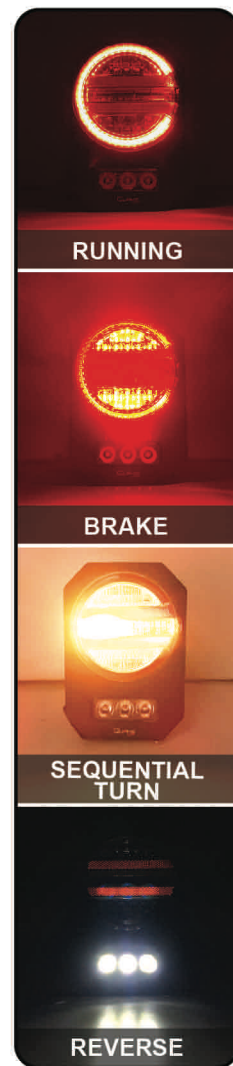
## LIGHT HACKER FUNCTION

RUNNING

BRAKE

SEQUENTIAL TURN

REVERSE



## LIGHT HACKER CONNECTOR

+12V REVERSE

Red (22AWG)

+12V RUNNING

(20AWG) Red

RADAR

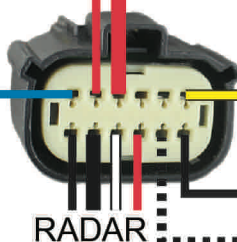
+12V BRAKE/TURN

Yellow

- 12V TAIL LIGHT

Black

COMM



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